TABLE 1. ROTARY KILN INCINERATOR EXPECTED HWC MACT OPERATING AND EMISSION LIMITS

HWC MACT LIMIT	HOW ESTABLISHED  LIMITS ASSOCIATED WITH THE C	AVERAGING TIME	LIMIT ESTABLISHED WHEN OPERATING CEMS	OPERATING LIMIT WHEN CEMS OR BACKUP CEMS IS UNAVAILABLE
Minimum combustion chamber temperature	Average of test run averages	Hourly rolling average	X	X
Maximum combustion chamber pressure	No operating limit established. The kiln uses pressurized seals and the rest of the system is sealed.	NA		
Maximum flue gas flow rate or production rate <sup>a</sup>	Average of the maximum hourly rolling averages	Hourly rolling average	X	X
Operation of waste firing system	Minimum waste atomization media pressure	Hourly rolling average	X	X
Carbon monoxide emission rate	HWC MACT  LIMITS ASSOCIATED WITH	Hourly rolling average	X	x
Maximum solid waste feed	Average of the maximum rolling hour averages	Hourly rolling average	X	x
Maximum rotary kiln primary waste feed rate	Average of the maximum rolling hour averages	Hourly rolling average	X	X
Maximum rotary kiln secondary waste feed rate	Average of the maximum rolling hour averages	Hourly rolling average	X	x
Maximum SCC primary waste feed rate	Average of the maximum rolling hour averages	Hourly rolling average	X	X
Maximum SCC secondary waste feed rate	Average of the maximum rolling hour averages	Hourly rolling average	X	x
	LIMITS ASSOCIATED WITH PARTICULA	TE MATTER EMISSIONS		
Particulate Emission Limit	CMS Performance Evaluation Test Plan/Alternative Monitoring Petition	6-hour rolling average from block hour average	X	
Maximum ash feed rate	Average of the test run averages	12-hour rolling average		x
Minimum pressure drop across the Hydro Sonics	Average of the test run averages	Hourly rolling average		X-equivalent pressure drop
Maximum solids content of the condenser/absorber scrubber water via CMS or minimum blowdown rate and either minimum scrubber tank volume or level	Average of the test run averages	12-Hour rolling average if measured by CMS, Hourly rolling average for minimum blowdown and either tank volume or level		waived via Alternative Monitoring Petition request under 1209(g) o HWC MACT
Maximum solids content of the Hydro- Sonics scrubber water via CMS or minimum blowdown rate and either minimum scrubber tank volume or level	Average of the test run averages	12-Hour rolling average if measured by CMS, Hourly rolling average for minimum blowdown and either tank volume or level		X- via CMS
Minimum liquid to gas ratio (L/G) or minimum liquid and maximum flue gas flow rates for the Hydro-Sonics scrubber	Average of the test run averages	Hourly rolling average		x
	LIMITS ASSOCIATED WITH HC	I/CI2 EMISSIONS		
HCl/Cl <sub>2</sub> emission rate	CMS Performance Evaluation Test Plan/Alternative Monitoring Petition	12-hour rolling average	X	
Maximum feed rate of total chlorine and chloride	Average of the test run averages	12-hour rolling average		×
Minimum pressure drop across the Hydro Sonics scrubber	Average of the test run averages	Hourly rolling average		X-equivalent pressure drop
Minimum pressure drop across the condenser/absorber	Manufacturer's specifications	Hourly rolling average		X
Minimum liquid feed pressure to the condenser/absorber	Manufacturer's specifications	Hourly rolling average		×

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Maximum combustion chamber pressure	No operating limit established. The kiln uses pressurized seals and the rest of the system is sealed.	NA		
Maximum flue gas flow rate or production rate <sup>a</sup>	Average of the maximum hourly rolling averages	Hourly rolling average	X	X
Operation of waste firing system	Minimum waste atomization media pressure	Hourly rolling average	X	X
Carbon monoxide emission rate	HWC MACT  LIMITS ASSOCIATED WITH	Hourly rolling average	X	x
Maximum solid waste feed	Average of the maximum rolling hour averages	Hourly rolling average	X	x
Maximum rotary kiln primary waste feed rate	Average of the maximum rolling hour averages	Hourly rolling average	X	X
Maximum rotary kiln secondary waste feed rate	Average of the maximum rolling hour averages	Hourly rolling average	X	x
Maximum SCC primary waste feed rate	Average of the maximum rolling hour averages	Hourly rolling average	X	X
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Particulate Emission Limit	CMS Performance Evaluation Test Plan/Alternative Monitoring Petition	6-hour rolling average from block hour average	X	
Maximum ash feed rate	Average of the test run averages	12-hour rolling average		x
Minimum pressure drop across the Hydro Sonics	Average of the test run averages	Hourly rolling average		X-equivalent pressure drop
Maximum solids content of the condenser/absorber scrubber water via CMS or minimum blowdown rate and either minimum scrubber tank volume or level	Average of the test run averages	12-Hour rolling average if measured by CMS, Hourly rolling average for minimum blowdown and either tank volume or level		waived via Alternative Monitoring Petition request under 1209(g) o HWC MACT
Maximum solids content of the Hydro- Sonics scrubber water via CMS or minimum blowdown rate and either minimum scrubber tank volume or level	Average of the test run averages	12-Hour rolling average if measured by CMS, Hourly rolling average for minimum blowdown and either tank volume or level		X- via CMS
Minimum liquid to gas ratio (L/G) or minimum liquid and maximum flue gas flow rates for the Hydro-Sonics scrubber	Average of the test run averages	Hourly rolling average		x
	LIMITS ASSOCIATED WITH HC	I/CI2 EMISSIONS		
HCl/Cl <sub>2</sub> emission rate	CMS Performance Evaluation Test Plan/Alternative Monitoring Petition	12-hour rolling average	X	
Maximum feed rate of total chlorine and chloride	Average of the test run averages	12-hour rolling average		×
Minimum pressure drop across the Hydro Sonics scrubber	Average of the test run averages	Hourly rolling average		X-equivalent pressure drop
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TABLE 1. ROTARY KILN INCINERATOR EXPECTED HWC MACT OPERATING AND EMISSION LIMITS

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Hydro-Sonics scrubber minimum Liquid to Gas Ratio (L/G) or minimum liquid & maximum flue gas flow rates	Average of the test run averages	Hourly rolling average		X
Condenser/absorber minimum Liquid to Gas Ratio (L/G) or minimum liquid & maximum flue gas flow rates	Average of the test run averages	Hourly rolling average		×
Minimum condenser/absorber water pH	Average of the test run averages	Hourly rolling average		X
Minimum Hydro-Sonics scrubber water pH	Average of the test run averages	Hourly rolling average		х
	LIMITS ASSOCIATED WITH MET	TALS EMISSIONS		
Mercury emission rate	CMS Performance Evaluation Test Plan Alternative Monitoring Application	12-hour rolling average from block hour average	X	
SVM emission rate	CMS Performance Evaluation Test Plan Alternative Monitoring Application	12-hour rolling average from block hour average	×	
LVM emission rate	CMS Performance Evaluation Test Plan Alternative Monitoring Application	12-hour rolling average from block hour average	X	
Maximum feed rate of mercury	Average of the test averages – (may be extrapolated upward)	12-hour rolling average		x
Maximum feed rate of SVM	Average of the test averages – (may be extrapolated upward)	12-hour rolling average		X
Maximum feed rate of LVM (pumpable and total feedrate)	Average of the test averages – (may be extrapolated upward)	12-hour rolling average		x
Maximum total chlorine and chloride feed rate	Average of the test run averages	12-hour rolling average		x
Minimum pressure drop across the Hydro Sonics scrubber	Average of the test run averages	Hourly rolling average		X-equivalent pressure drop
Minimum pressure drop across the condenser/absorber	Manufacturer's specifications	Hourly rolling average		X
Minimum liquid feed pressure to the condenser/absorber	Manufacturer's specifications	Hourly rolling average		х
Maximum solids content of the condenser/absorber scrubber water via CMS or minimum blowdown rate and either minimum scrubber tank volume or level	Average of the test run averages	12-Hour rolling average if measured by CMS, Hourly rolling average for minimum blowdown and either tank volume or level		waived via Alternative Monitoring Petition request under 1209(g) o HWC MACT
Maximum solids content of the Hydro- Sonics scrubber water via CMS or minimum blowdown rate and either minimum scrubber tank volume or level	Average of the test run averages	12-Hour rolling average if measured by CMS, Hourly rolling average for minimum blowdown and either tank volume or level		X- via CMS
Condenser/absorber minimum Liquid to Gas Ratio (L/G) or minimum liquid & maximum flue gas flow rates	Average of the test run averages	Hourly rolling average		X
Hydro-Sonics scrubber minimum Liquid to Gas Ratio (L/G) or minimum liquid & maximum flue gas flow rates	Average of the test run averages	Hourly rolling average		x

 $<sup>^{\</sup>rm a}$  This limit is also an indicator of compliance with the SVM, LVM, PM, and HCI/Cl $_{\rm 2}$  emission limits.

NA = Not Applicable

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Condenser/absorber minimum Liquid to Gas Ratio (L/G) or minimum liquid & maximum flue gas flow rates	Average of the test run averages	Hourly rolling average		×
Minimum condenser/absorber water pH	Average of the test run averages	Hourly rolling average		X
Minimum Hydro-Sonics scrubber water pH	Average of the test run averages	Hourly rolling average		х
	LIMITS ASSOCIATED WITH MET	TALS EMISSIONS		
Mercury emission rate	CMS Performance Evaluation Test Plan Alternative Monitoring Application	12-hour rolling average from block hour average	X	
SVM emission rate	CMS Performance Evaluation Test Plan Alternative Monitoring Application	12-hour rolling average from block hour average	×	
LVM emission rate	CMS Performance Evaluation Test Plan Alternative Monitoring Application	12-hour rolling average from block hour average	X	
Maximum feed rate of mercury	Average of the test averages – (may be extrapolated upward)	12-hour rolling average		x
Maximum feed rate of SVM	Average of the test averages – (may be extrapolated upward)	12-hour rolling average		X
Maximum feed rate of LVM (pumpable and total feedrate)	Average of the test averages – (may be extrapolated upward)	12-hour rolling average		x
Maximum total chlorine and chloride feed rate	Average of the test run averages	12-hour rolling average		x
Minimum pressure drop across the Hydro Sonics scrubber	Average of the test run averages	Hourly rolling average		X-equivalent pressure drop
Minimum pressure drop across the condenser/absorber	Manufacturer's specifications	Hourly rolling average		X
Minimum liquid feed pressure to the condenser/absorber	Manufacturer's specifications	Hourly rolling average		х
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Condenser/absorber minimum Liquid to Gas Ratio (L/G) or minimum liquid & maximum flue gas flow rates	Average of the test run averages	Hourly rolling average		X
Hydro-Sonics scrubber minimum Liquid to Gas Ratio (L/G) or minimum liquid & maximum flue gas flow rates	Average of the test run averages	Hourly rolling average		x

 $<sup>^{\</sup>rm a}$  This limit is also an indicator of compliance with the SVM, LVM, PM, and HCI/Cl $_{\rm 2}$  emission limits.

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